

Shield Cage for Bo Electronics

Hans Jostlein

1-22-2007

This is a collection of hardware designs for the inner copper box shield and the outer NEMA Box.

The copper box consists now of a "cage", made from 1/2" square brass sticks, brazed or welded together as sketched. (this brass is inexpensive-- \$ 57.- for 12 ft). This brass alloy 360 machines very well.

I think resistance is not an issue for such a massive conductor.

If that's not correct we can go to copper (machines much less easily) which is also inexpensive (\$ 22 for 3 ft of 1/2" square stock):

 Your cart contains:

Quantity	Item #	Description	Unit Price	Sub-total	Actions
1	RS:RSBR360:S00500-360-144	1/2" SQUARE 360 BRASS 144" (12 FT) FULL LGTH R/L	\$56.98	\$56.98	Remove
1	RS:RSC110:S00500-110-036	1/2" SQUARE 110 CDH COPPER 36" PRE-CUT	\$22.11	\$22.11	Remove

Items have had applicable discounts applied, unless otherwise specified.

Total: \$79.09 *Tax not included*

Estimated total availability: 1 day/s

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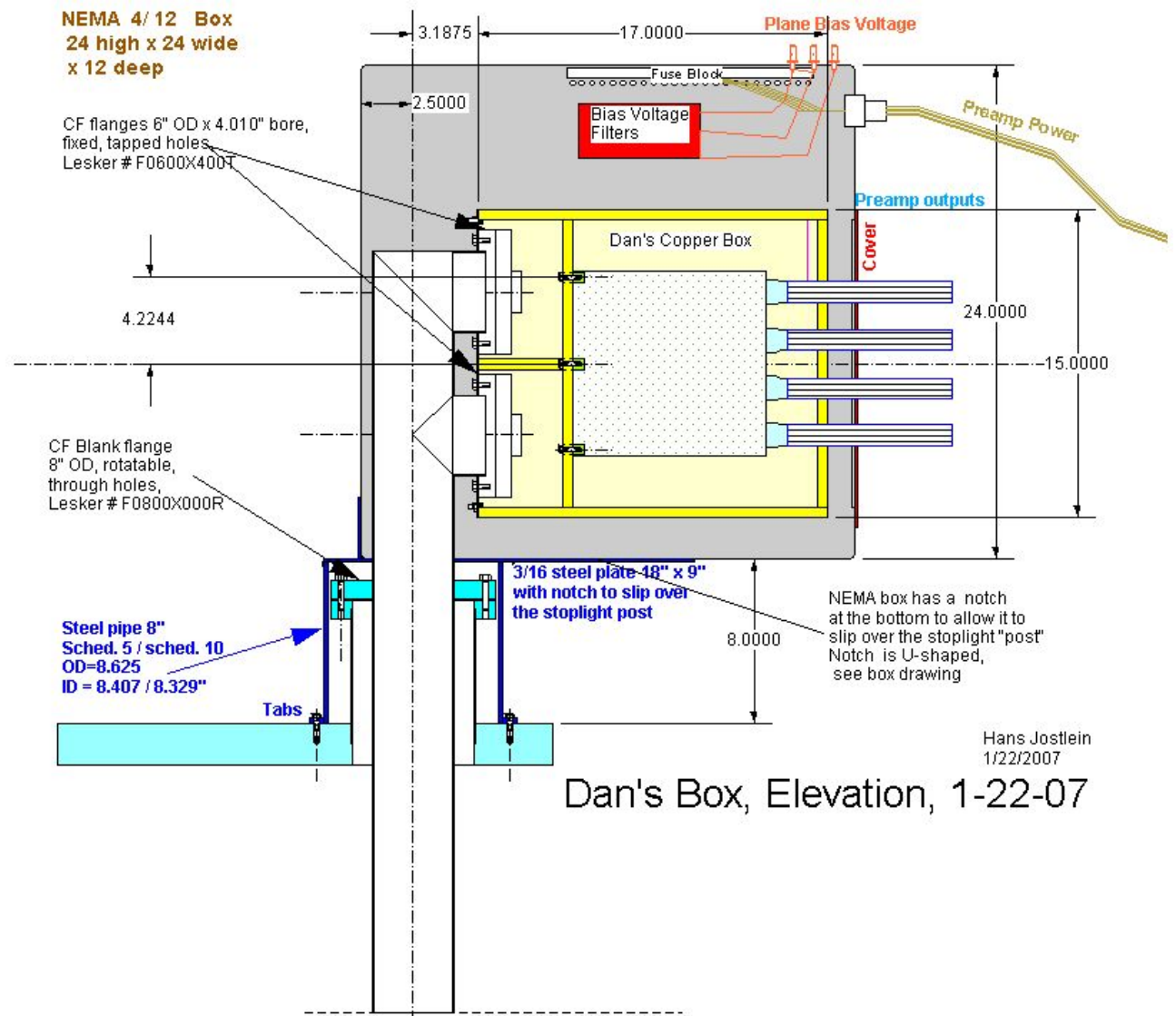
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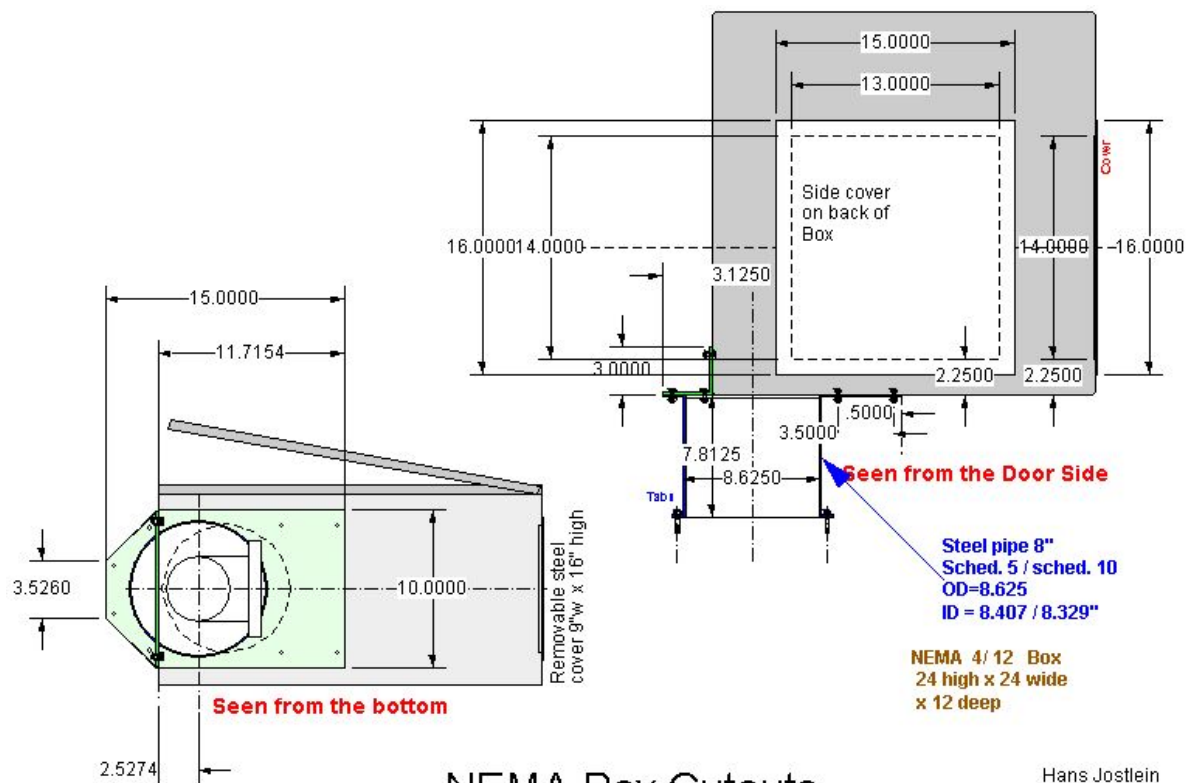
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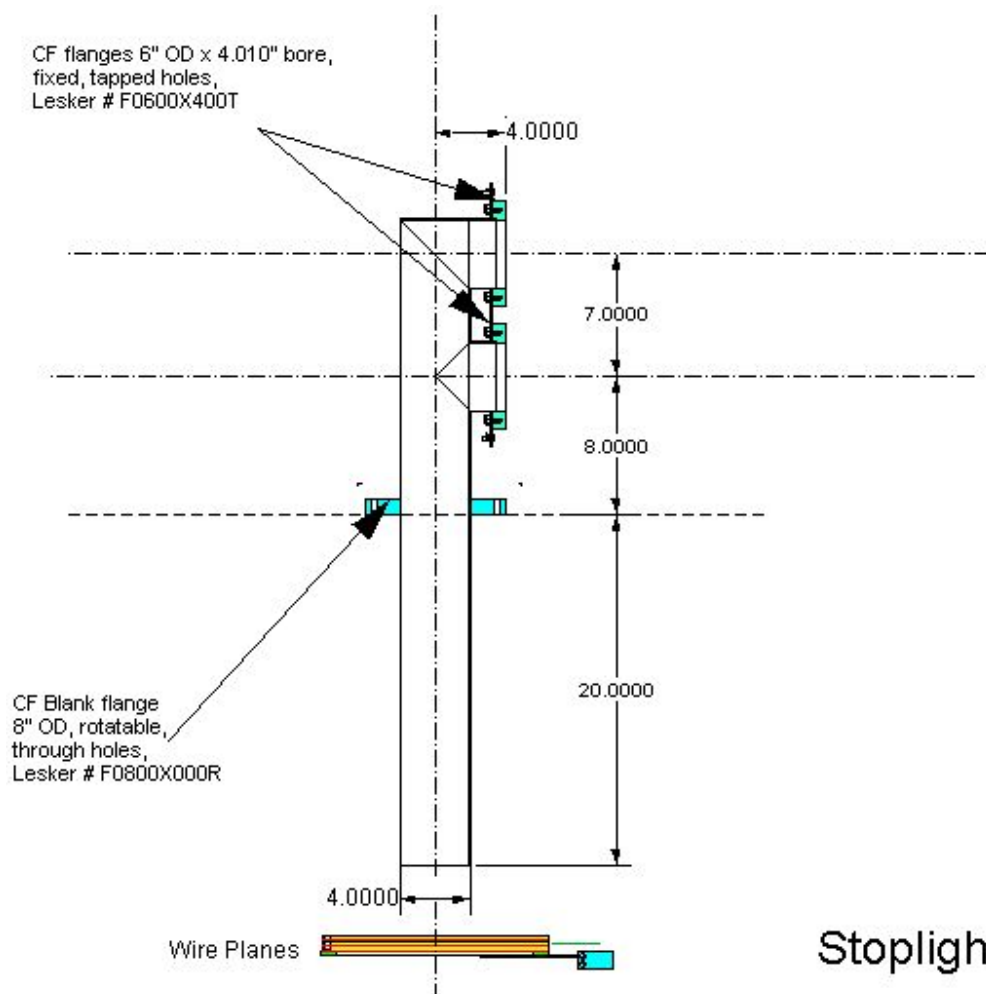
BROWSE CATALOG

The brass sticks have tapped holes for the outer copper skin panels,
And for the little brass blocks, 3 per card, that hold and ground the cards.
This way every card is mounted independently, while still providing a very good ground
path to the “mounting plate” and hence the stoplight flanges that carry the signal
feedthroughs.

The outer “NEMA-Box” is mounted off a tubular pedestal to mitigate pipe interference.
The NEMA box has a bottom cutout (8” diameter) to thread over the stoplight assembly.
An iron angle piece covers the part of this hole that would otherwise be exposed (on the
left side) and provides extra mounting stiffness for the NEMA box.
The NEMA box has also two additional cutouts for removable steel access panels, for
flange installation and electronics work. One of the access panels, the one away from the
flanges, allows to pull out individual cards if needed.

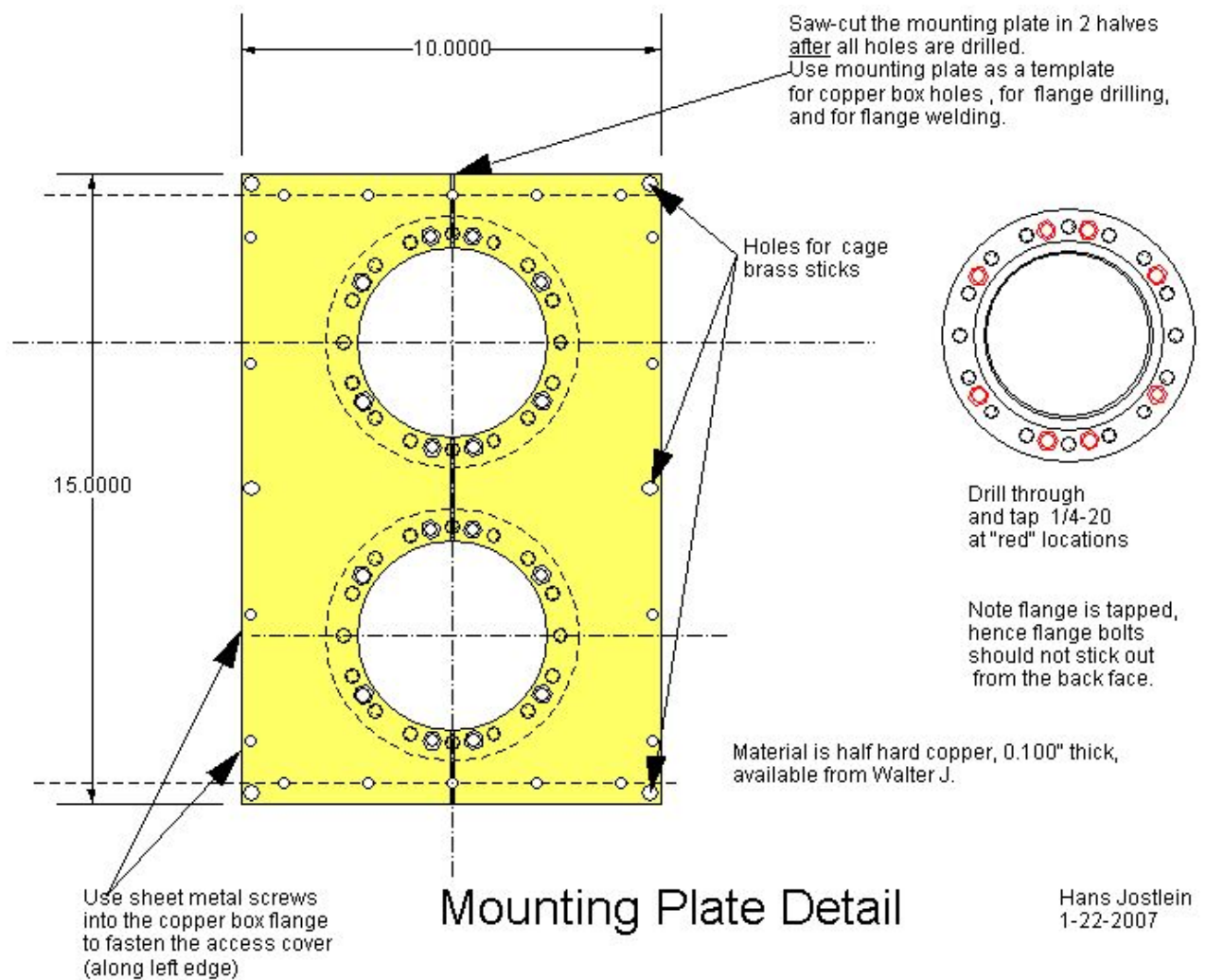


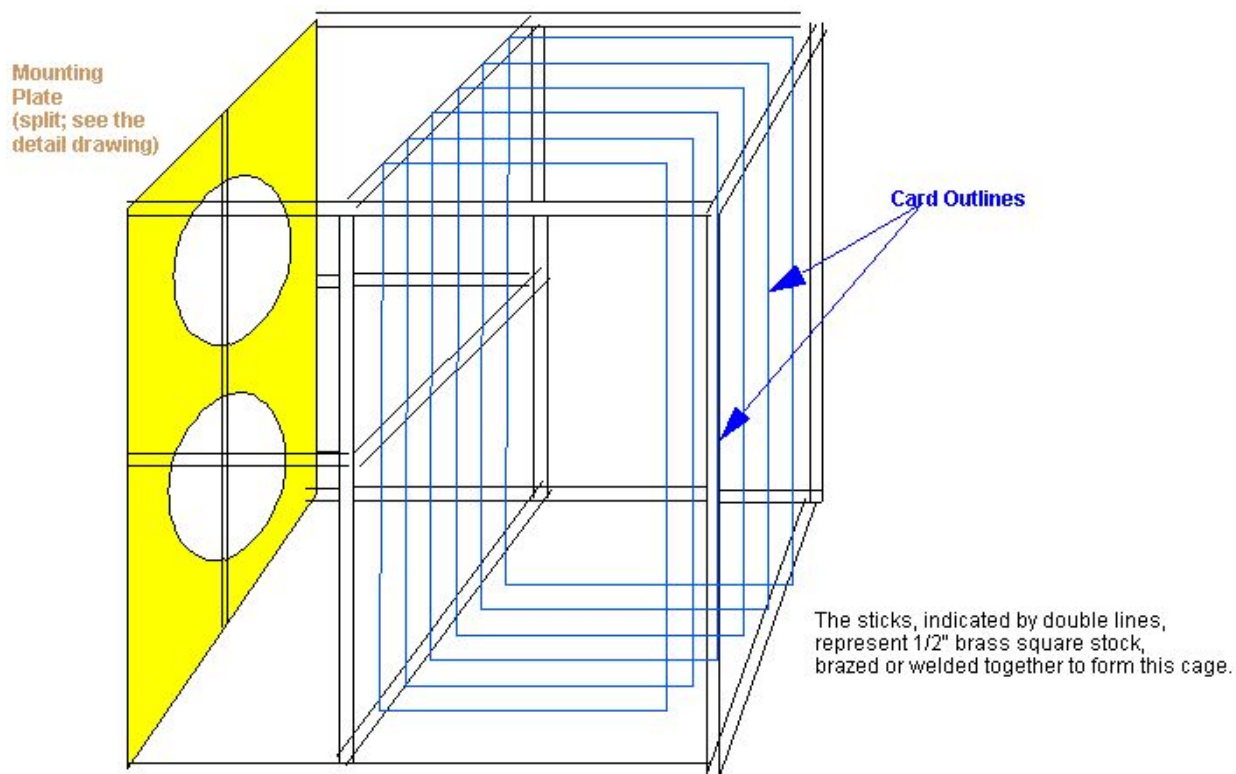




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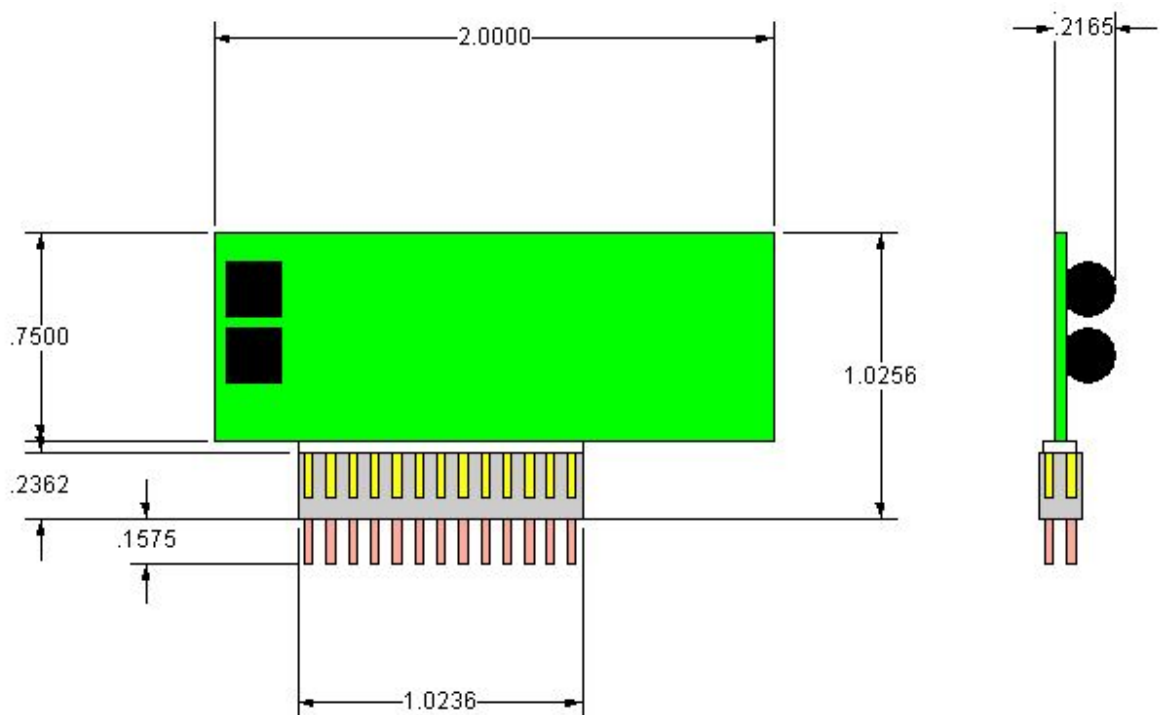
Stoplight Detail





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Shield Cage Frame



FET Boards,
DZero Calorimeter type

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